

Title (en)

Polymeric charge transfer complexes for nonlinear optical applications.

Title (de)

Polymere Chargetransfer-Komplexe für nichtlineare optische Anwendungen.

Title (fr)

Complexe polymère à transfert de charge pour applications optiques non linéaires.

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Application

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Abstract (en)

This invention provides an optical medium and a process therefor wherein the medium exhibits third order nonlinear optical response and comprises a polymer with pendant groups having delocalized pi-electron character forming a charge transfer complex with dopant molecules. The optical medium is useful in optical devices, such as optical switches or light modulation devices as a component or as a coating. In other aspects, novel polymers and polymer complexes are disclosed.

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